

Appl. No. 10/024,783
Amendment and/or Response
Reply to Office action of 11 August 2004

Page 2 of 8

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) An electroluminescent device comprising
a pattern-wise ink-jet printed electrode for supplying charges to an electroluminescent layer of the electroluminescent device,
the electrode comprising a metal or a metal alloy having a melting point of 250°C or less that is ink-jet printed in a molten form.
- 2-3. (Canceled)
4. (Previously presented) An electroluminescent device as claimed in claim 1, wherein
the electrode is an electrode for supplying electrons to the electroluminescent layer.
5. (Original) An electroluminescent device as claimed in claim 4 wherein
the electrode has a work function of 4.5 eV or less.
6. (Currently amended) An electroluminescent device comprising
a pattern-wise ink-jet printed electrode for supplying charges to an electroluminescent layer of the electroluminescent device,
the electrode comprising a metal or a metal alloy having a melting point of 250°C or less that is ink-jet printed in a molten form,
further comprising
a relief pattern for patterning the pattern-wise ink-jet printed electrode.

Appl. No. 10/024,783
Amendment and/or Response
Reply to Office action of 11 August 2004

Page 3 of 8

7. (Previously presented) An electroluminescent device as claimed in claim 1, wherein

the device is a matrix display device of the passive type comprising
one or more electroluminescent layers sandwiched between row
electrodes and column electrodes,
independently addressable electroluminescent elements being formed
at crossings of row and column electrodes,
wherein
the row electrodes are pattern-wise ink-jet printed electrodes comprising a
metal or a metal alloy.

8. (Previously presented) A battery-operated and/or hand-held electronic device,
such as a mobile phone, provided with an electroluminescent device as claimed in
claim 1.

9. (Canceled)

10. (Currently amended) A method of manufacturing an electroluminescent device
comprising a metal or metal alloy electrode provided in accordance with a desired
pattern, said method comprising

~~the deposition of a metal or metal alloy electrode in accordance with the
desired pattern on a substrate surface by means of one or more deposition steps,
said deposition including a deposition step of ink-jet printing molten metal or
metal alloy on a surface in accordance with the desired pattern thus forming, upon
cooling of the molten metal or metal alloy ink-jet printed onto the surface, the metal or
metal alloy electrode.~~

11. (Previously presented) The method of claim 10, further comprising
forming a relief pattern on the surface to facilitate patterning the pattern-wise
ink-jet printed electrode.

Appl. No. 10/024,783
Amendment and/or Response
Reply to Office action of 11 August 2004

Page 4 of 8

12. (Canceled).

13. (Previously presented) The method of claim 10, wherein
the metal or metal alloy has a melting point of 250 °C or less.

14. (Previously presented) An electroluminescent device as claimed in claim 1,
wherein
the electrode has a work function of 4.5 eV or less.

15-16. (Canceled)

17. (Currently amended) An electroluminescent device as claimed in claim-2 6,
wherein
the device is a matrix display device of the passive type comprising
one or more electroluminescent layers sandwiched between row
electrodes and column electrodes,
Independently addressable electroluminescent elements being formed
at crossings of row and column electrodes,
wherein
the row electrodes ~~are~~ include the pattern-wise ink-jet printed electrodes
~~comprising a metal or a metal alloy.~~

18-20. (Canceled)

21. (New) The method of claim 11, wherein
forming the relief pattern includes patterning of a photoresist material.

22. (New) The method of claim 10, wherein
the metal or metal alloy has a melting point between 60 °C and 150 °C.

Appl. No. 10/024,783
Amendment and/or Response
Reply to Office action of 11 August 2004

Page 5 of 8

23. (New) The method of claim 10, further including
ink-jet printing a selection layer on the surface to facilitate selective depositing
of the metal or metal alloy upon the surface.
24. (New) The method of claim 10, wherein
the selection layer is printed on the surface using an other pattern that is
complementary to the desired pattern.
25. (New) The method of claim 24, wherein
the selection layer comprises a photoresist layer.
26. (New) A method of manufacturing an electroluminescent device comprising a
metal or metal alloy electrode provided in accordance with a desired pattern, said
method comprising
ink-jet printing a selection layer on the surface to facilitate selective depositing
of the metal or metal alloy upon the surface, and
applying the metal or metal alloy upon the surface in accordance with the
desired pattern.
27. (New) The method of claim 26, wherein
the selection layer is printed on the surface using an other pattern that is
complementary to the desired pattern.
28. (New) The method of claim 27, wherein
the selection layer comprises a photoresist layer.